

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. 1146-4 DIV/CON	SERIAL NO. 09/489,588
APPLICANT Shults et al.	CONFIRMATION NO.
FILING DATE	GROUP

2/23/0)

1744

January 21, 2000

U.S. PATENT DOCUMENTS DOCUMENT EXAMINER SUB CLASS FILING DATE DATE NAME INITIAL **NUMBER CLASS APPROPRIATE** 4,353,888 10/12/82 Selfton AUG 2 1 2001 4,431,004 02/14/84 Bessman et al. TECHNOLOGY CENTER R3700 4,436,094 03/13/84 Cerami 4,484,987 11/27/84 Gough 4,686,044 08/11/87 Behnke et al. 4,703,756 11/03/87 Gough et al. Shults et al. 4,757,022 07/12/88 4,787,398 11/29/88 Garcia et al. 4,803,243 02/07/89 Fujimoto et al. 4,823,808 04/25/89 Clegg et al. 4,902,294 02/20/90 Gosserez 4,994,167 02/19/91 Shults et al. 5,190,041 03/02/93 Palti 5,314,471 05/24/94 Brauker et al. 5,321,414 06/14/94 Alden et al. 5,344,454 09/06/94 Clarkeet et al. 5,380,536 01/10/95 Hubbell et al. 5,417,395 05/23/95 Fowler et al.

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

**DATE CONSIDERED** 

N9586

**EXAMINER** 

NA PTO-144 U.S. DEPARTMENT OF COMMERCE REVENUE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.	
1146-4 DIV/CON	

SERIAL NO. 09/489,588

APPLICANT Shults et al. CONFIRMATION NO.

FILING DATE
January 21, 2000

GROUP 1744

MADEMA		<u></u>			
N	5,421,923	06/06/95	Clarke et al.	-	
	5,431,160	07/11/95	Wilkins	4	TEC D
	5,453,278	09/26/95	Cham et al.		AUS ()
	5,462,064	10/31/95	D'Aneglo et al.		3 2 1 0 GY C
	5,469,846	11/28/95	Khan		AUS 2 1 2001
	5,476,094	12/19/95	Allen et al.		AUS 2 1 2001 TECHNOLOGY CENTER R3700
	5,497,772	03/12/96	Schulman et al.		
	5,545,223	08/13/96	Neuenfeldt et al.		
	5,549,675	08/23/96	Neuenfeldt et al.		
	5,569,462	10/29/96	Martinson et al.		
	5,578,463	11/26/96	Berka et al.		
	5,593,440	01/14/97	Brauker et al.		
	5,653,756	08/05/97	Clarke et al.		09/02/94
	5,660,163	08/26/97	Schulman et al.		05/18/95
	5,713,888	02/03/98	Neuenfeldt et al.		06/05/95
	5,733,336	03/31/98	Neuenfeldt et al.		03/30/95
	5,741,330	04/21/98	Brauker et al.		06/07/95
	5,782,912	07/21/98	Brauker et al.		03/17/94
	5,800,529	09/01/98	Brauker et al.		06/07/95
m	5,807,406	09/15/98	Brauker et al.		06/07/95

**EXAMINER** 

Nesser

DATE CONSIDERED

2/27/61

Sheet  $\underline{3}$  of  $\underline{5}$ TO-1449 U.S. DEPARTMENT OF COMMERCE ATTY, DOCKET NO. SERIAL NO. PATENT AND TRADEMARK OFFICE 1146-4 DIV/CON 09/489,588 INFORMATION DISCLOSURE **APPLICANT** CONFIRMATION NO. STATEMENT BY APPLICANT Shults et al. FILING DATE **GROUP** (Use several sheets if necessary) January 21, 2000 1744 5,882,354 03/16/99 Brauker et al. 10/07/94 06/07/95 5,964,261 10/12/99 Neuefeldt et al. 6,122,536 09/19/00 Sun et al. 6,208,894 03/27/01 Schulman et al. 6,212,416 04/03/01 Ward et al. 08/17/95 6,256,522B1 07/03/01 Schultz 6,259,937 07/10/01 Schulman et al. FOREIGN PATENT DOCUMENTS

EXAMINER		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
INITIAL							YES	NO
\frac{1}{2}		WO 90/00738	01/25/90	РСТ	\	$\overline{}$		
		WO 92/07525	05/14/92	РСТ				
		W0 92/13271	08/06/92	РСТ				
		WO 94/22357	10/13/94	РСТ	_			
		WO 96/01611	01/25/96	РСТ				
		WO 96/32076	10/17/96	РСТ	_			
~		WO 96/36296	11/21/96	РСТ				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Updike et al., "Laboratory Evaluation of New Reusable Blood Glucose Sensor," *Diabetes Care*, 11:801-807 (1988).

**EXAMINER** 

Nassy

DATE CONSIDERED

2/23/0)

FORMOTO-1449? (Reverse-32) FA	U.S. DEPARTMENT OF COMMERCE TENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 1146-4 DIV/CON	SERIAL NO. 09/489,588		
7 ~200/ 11	NFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT Shults et al.	CONFIRMATION N		
, E	e several sheets if necessary)	FILING DATE January 21, 2000	GROUP 1744		
TRADEMARS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0	* * * * * * * * * * * * * * * * * * *		
re	Moatti-Sirat et al., "Toward Evaluation of a Miniaturize Rate Subcutaneous Tissue,"	d Glucose Sensor Implant	ted for Several Days		
	Armour et al., "Application Dogs," <i>Diabetes</i> 39:1519-2	6 (1990).			
	Woodward, "How Fibrobla: Considerations in Design of (1982).  Bindra et al., "Design and Infor Subcutaneous Monitorir	sts and Giant Cells Encap f Glucose Sensor," <i>Diabet</i>	sulate Implants: tes Care 5:278-281		
Bindra et al., "Design and for Subcutaneous Monitor Shults et al., A Telemetry-Subcutaneously Impaired 41:937-942 (1994).		n Vitro Studies of a Needing," <i>Anal. Chem.</i> 63:1692	le-Type Glucose Ser -96 (1991).		
	Phillips and Smith, "Biome of Failure Mechanisms," J.				
	Stokes, "Polyether Polyuret 259 (1988).	Stokes, "Polyether Polyurethanes: Biostable or Not?," J. Biomat. Appl. 3:228 259 (1988).			
	Updike et al. Enzymatic Glu In Vitro and In Vivo, Am. So				
	Updike et al., Implanting th and Alternative Solutions,"	Diabetes Care 5:207-21	(1982).		
	Rhodes et al., "Prediction of Enzyme Electrode Performa				

1 m. 2 . 200		, blicet <u>5</u> 0
FOR TO-1449 U.S. DEPARTMENT OF COMMERCE (Red 2-32) PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 1146-4 DIV/CON	SERIAL NO. 09/489,588
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT Shults et al.	CONFIRMATION NO.
Use several sheets if necessary)	FILING DATE January 21, 2000	GROUP 1744
	······································	

TRADEMARK .	Tse and Gough, Time-Dependent Inactivation of Immobilized Glucose Oxidase and Catalase, <i>Biotechnol. Bioeng.</i> 29:705-713 (1987).
	Tse and Gough, Time-Dependent Inactivation of Immobilized Glucose Oxidase and Catalase, Biotechnol. Bioeng. 29:705-713 (1987).  Gilligan et al., "Evaluation of a Subcutaneous Glucose Sensor Out to 3 Months in a Dog Model," Diabetes Care 17:882-887 (1994).
	McKean and Gough, "A Telemetry-Instrumentation System for Chronically Implanted Glucose and Oxygen Sensors," <i>IEEE Trans. Biomed. Eng.</i> 35:526-532 (1988).
	Shichiri et al., "Telemetry Glucose Monitoring Device with Needle-Type Glucose Sensor-A Useful Tool for Blood Glucose Monitoring in Diabetic Individuals," <i>Diabetes Care</i> 9:298-301 (1986).
	Lyman, "Polyurethanes. I. The Solution Polymerization of Diisocyanates with Ethylene Glycol," <i>J. Polymer Sci.</i> 45:49 (1960).
	DuPont <sup>1</sup> Dimension AR® (Catalog).
	Direct 30/30® meter (Markwell Medical) (Catalog).
	Fischer et al., "Oxygen Tension at the Subcutaneous Implantation Site of Glucose Sensors," <i>Biomed. Biochem.</i> 11/12, 965-972 (1989).
	Brauker et al., "Neovascularization of Synthetic Membranes Directed by Membrane Microarchitecture," <i>Journal of Biomedical Materials Research</i> 29:1517 (1995).
~	Abstract presented by James Brauker, Ph.D., "Neovascularization of Cell Transplantation Devices: Membrane Architecture-Driven and Implanted Tissue-Driven Vascularization," Baxter Healthcare Corp.

**EXAMINER** 

NASSE

DATE CONSIDERED

2/23/02



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2-32) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.	SERIAL NO.
1146-4 DIV/CON	09/489,588
APPLICANT Shults et al.	CONFIRMATION NO.
FILING DATE	GROUP
January 21, 2000	1744



Brauker et al., "Local Inflammatory Response Around Diffusion Chambers Containing Xenografts", Transplantation, Vol. 61, 1671-1677, No. 12, June 27, 1996.



TECHNOLOGY CENTER R3700

MOMINED

**EXAMINER** 

Nasse

DATE CONSIDERED

2/23/0)